

### ARCHITECTS SPECIFICATIONS

#### MFA-8000

The power amplifier, being of two channels, shall deliver a minimum power of 750 watts RMS per channel into 8 ohm loads and 1200 watts RMS per channel into 4 ohm loads, or 1500 watts per channel into 2 ohm loads with both channels operating. When switched into bridged-mono mode, the amplifier it shall deliver at least 2400 watts into an 8 ohm load. The amplifier shall be immune to damage from shorted, open, or mismatched loads. The amplifier shall have a gain of 38 dB per channel and an input sensitivity of 1 Volt RMS for full rated output. Frequency response shall be 20Hz to 20kHz +/- .2dB. It shall be stable into any load, including pure capacitors and inductors. Hum and noise shall be at least 105dB below full output and total harmonic distortion shall be less than .025% below 1KHz. The amplifier shall have rear panel switching for parallel mono and bridging modes and rear mounted level controls. The inputs shall be of balanced bridging type with female XLR connectors as well as 1/4" phone jacks and barrier strips. A three-color LED type indicator shall be employed to show the power level of each channel and two speed forced air cooling shall be used. Each channel shall have a PROTECT LED which indicates an open relay due to short-circuit, ultrasonic, DC, or turn-on delay. A LIMIT LED shall indicate any limiting action and a THERMAL

LED shall indicate excessive temperature. The power output devices shall be complementary bipolar transistors.

The amplifier shall weigh 61 lbs net and mount in a standard 19 inch rack using three spaces (5.25" high). The power requirement shall be 110-125VAC, 50-60-Hz. The power amplifier shall be an Ashly MFA-8000.

#### Features:

- Turn-on Delay
- 5-Year Worry-Free Warranty
- Bipolar Output Devices
- Class-A Full Complementary Front End
- Modular Construction
- XLR, 1/4", and Barrier Strip inputs
- Stereo, Parallel Mono & Bridging Modes
- LED Level meters and Status LEDs
- Stable Into Any Load
- Self Protecting Under Virtually All Conditions
- Input Transformers Optionally Available
- PowerCard Input Option Ready
- Speakon and Binding Post Outputs
- High-efficiency 3-Step Power Supply

## General Specifications MFA-8000

### OUTPUT POWER

(Per Channel, Both Driven at, 1KHz, 0.1% THD)

8 ohms: 750 Watts RMS  
 4 ohm: 1200 Watts RMS  
 2 ohm: 1500 Watts RMS

(BRIDGED MONO MODE)

8 ohms: 2400 Watts RMS  
 4 ohm: 3000 Watts RMS

(Per Channel from 20Hz to 12KHz\*, <.25% THD)

8 ohm: 720 Watts RMS  
 4 ohm: 1100 Watts RMS

Frequency Response: +/-0.2dB (20Hz - 20KHz)  
 +/-3dB (8Hz - 100KHz)

Total Harmonic Distortion: 0.025% (720 Watts into 8 ohms,  
 20Hz - 1KHz increasing to <.25% at  
 12KHz

Output Hum and Noise: -105dB from full output (20Hz -  
 20KHz unweighted)

Damping Factor: >200, 8 ohm, 20Hz - 1KHz

Crosstalk: -90dB (20Hz - 1KHz)

Input Sensitivity: 1 Vrms for full output

Voltage Gain: 80X (38dB)

Input Impedance: 20K ohm balanced

Amplifier Protection:

Load Protection:

Cooling:  
 Indicators:

Power Requirement:

Size:  
 Shipping Weight:

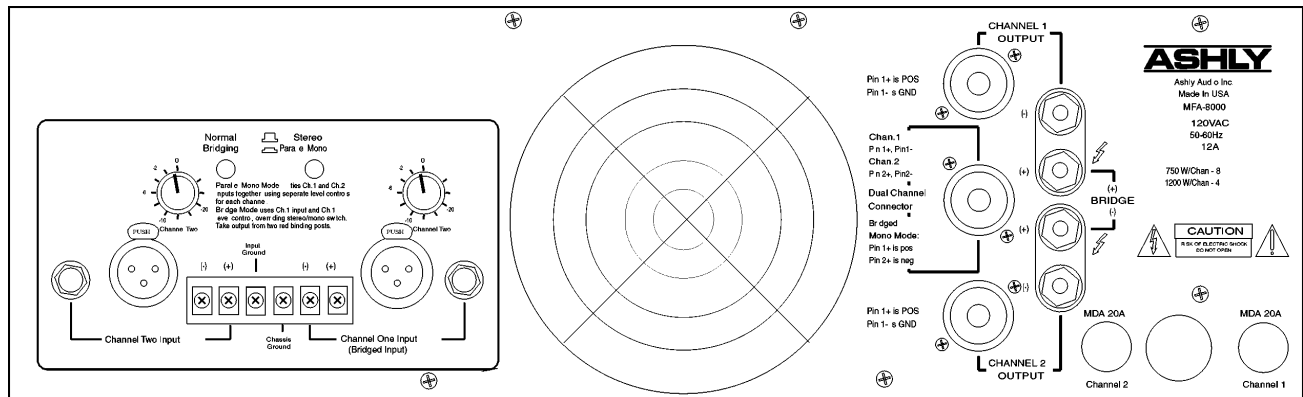
\*Protection circuits will prevent full output voltages above 12KHz

Specification conditions are: 120VAC mains at 60Hz, 25° C

Fuseless short-circuit protection,  
 ultrasonic and RF protection,  
 advanced thermal protection  
 Turn-on delay with level ramp-up,  
 DC fault protection, ultrasonic limit  
 ing, clip limiting  
 Forced air with 2-speed fan  
 11 segment level meters with true  
 clipping red LED, Green Limit LED  
 indicates when electronic attenuator  
 is active. Yellow Therm LED  
 indicates a higher than normal oper  
 ating temperature. Red Protect LED  
 indicates when output relay is open.

110-125VAC, 50-60Hz  
 (240V Available)  
 1.2 amps idle current draw,  
 12 amps maximum for typical stereo  
 operation into 4 ohm loads  
 19"L x 5.25"H x 16.5"D  
 68 lbs

## Rear Panel MFA-8000



## Applications:

Churches, Studios, Concerts, Dance/Night Clubs, PA Systems, Auditoriums, Lecture Halls, Sports Stadiums, Outdoor Festivals

Ashly manufactures a complete and comprehensive line of Graphic and Parametric Equalizers, Electronic Crossovers, Power Amplifiers, Compressor-Limiters, Mixers, and Amplifier Input Options. Please call, write or visit our web site for information on any of these Ashly Products.

Ashly Audio Inc., 847 Holt Road, Webster, NY 14580-9103, Toll Free (800) 828-6308, Telephone (585) 872-0010, FAX (585) 872-0739  
 Internet: <http://www.ashly.com>, email: [info@ashly.com](mailto:info@ashly.com)